EXECUTIVE ORDER U-R-047-0006 New Off-Road Compression-Ignition Engines

Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours) 8000		
2005	5V5XL03.0R6T	3.0	Diesel			
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION			
D	Pirect Diesel Injection, To	urbocharger	Pump, Tractor, Compressor, Generator Set			

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kW-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kW-hr)				OPACITY (%)			
			нс	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
37 ≤ kW < 75	Tier 2	STD	N/A	N/A	7.5	5.0	0.40	20	15	50
		CERT	_	_	7.4	1.5	0.31	12	8	30

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this _______ day of March 2004.

Allen Lyons, Chief

Mobile Source Operations Division

Engine Model mmary Form

Manufacturer: VM Motori S.p.D.

Engine category: Nonroad CI

EPA Engine Family: 5V5XL03.0R6T

Mfr Family Name: D754TE2

Process Code: New Submission

8.Fuel Rate: 9.Emission Control (kg/hr)@peak torque Device Per SAE J1930 EO#U-R-47-6 8.Fuel Rate: ATTACHMENT mm/stroke@pea k torque 7.Fuel Rate: 6.Torque @ RPM (NM) 4.Fuel Rate: 5.Fuel Rate: mm/stroke @ peak kW (lkg/hr) @ peak kW (for diesels only) 3. kW @RPM (SAE Gross)

TC EM DET

∑ E 10.7 N/A

E E

10.7

84.0

332@1300 332@1300 N/A N/A

16,8

66.0 70.0 85,5

67.5@2600

D754TE2 D754TE2

33C/8

D754TE2 D754TE2

33C/9

33C/15

33C/18

65.5@2300

70.9@2600 67.5@2300

D754TE2

33C/3

33C/4

2. Engine Model

1.Engine Code

53.0@1500

58.5@1800

D754TE2

15.7 12.5

338@1300 338@1300

17,3

84.0 N/A